B.Tech - Semantic HTML Multimedia Webpage

Title of the Website:
MindCare – Semantic, Multimedia and Interactive Webpage

Purpose of the Website:
The purpose of this website is to demonstrate the practical use of HTML5 semantic elements, multimedia integration, and JavaScript-based interactivity. The website focuses on a mental wellness platform and includes authentication pages (Sign Up and Login) along with interactive UI components to enhance user experience.

Target Users:

- Students
- Beginners in Web Development
- Educational Institutions
- Users interested in mental wellness platforms

Tools Used:

- HTML5
- CSS3
- JavaScript (Vanilla JS)
- Text Editor (VS Code)
- Web Browser (Google Chrome)

Key Features:

- Use of semantic HTML5 tags for proper structure
- SEO-friendly and accessible layout
- Authentication pages (Sign Up & Login)
- Interactive FAQ section with toggle effect
- Category-based content filtering
- Animated counters and scroll-based animations
- Smooth scrolling navigation
- Responsive and modern UI design

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2. TAG DEFINITIONS USED IN THE WEBPAGE

2.1 Basic Structure Tags

Tag	Definition
<html>	Defines the root of the HTML document
<head>	Contains metadata, title, and linked resources
<title>	Specifies the title of the webpage
<body>	Contains the visible content of the webpage
<link>	Links external CSS files
<script>	Used to include JavaScript code

2.2 Semantic Tags

Tag	Definition
<header>	Represents the top section of the webpage

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<nav>	Defines navigation links
<section>	Groups related content
<article>	Represents independent content
<footer>	Defines footer information
<main>	Specifies the main content area

2.3 Multimedia Tags

Tag	Definition
<audio>	Used to embed audio content
<video>	Used to embed video content
<source>	Specifies media resources
<img>	Displays images

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JAVASCRIPT FUNCTIONALITY USED

The website uses JavaScript to improve interactivity and user experience. Key functionalities include:

- FAQ accordion toggle using click events
- Category-based filtering of FAQ items
- Form submission handling with validation feedback
- Button ripple animation effect
- Smooth scrolling for internal links
- Scroll-based animations using Intersection Observer API
- Animated counters for statistics display
- Dynamic header shadow on scroll
- Hover effects on therapy cards

These features make the website dynamic, engaging, and user-friendly.

3. SCREENSHOT :

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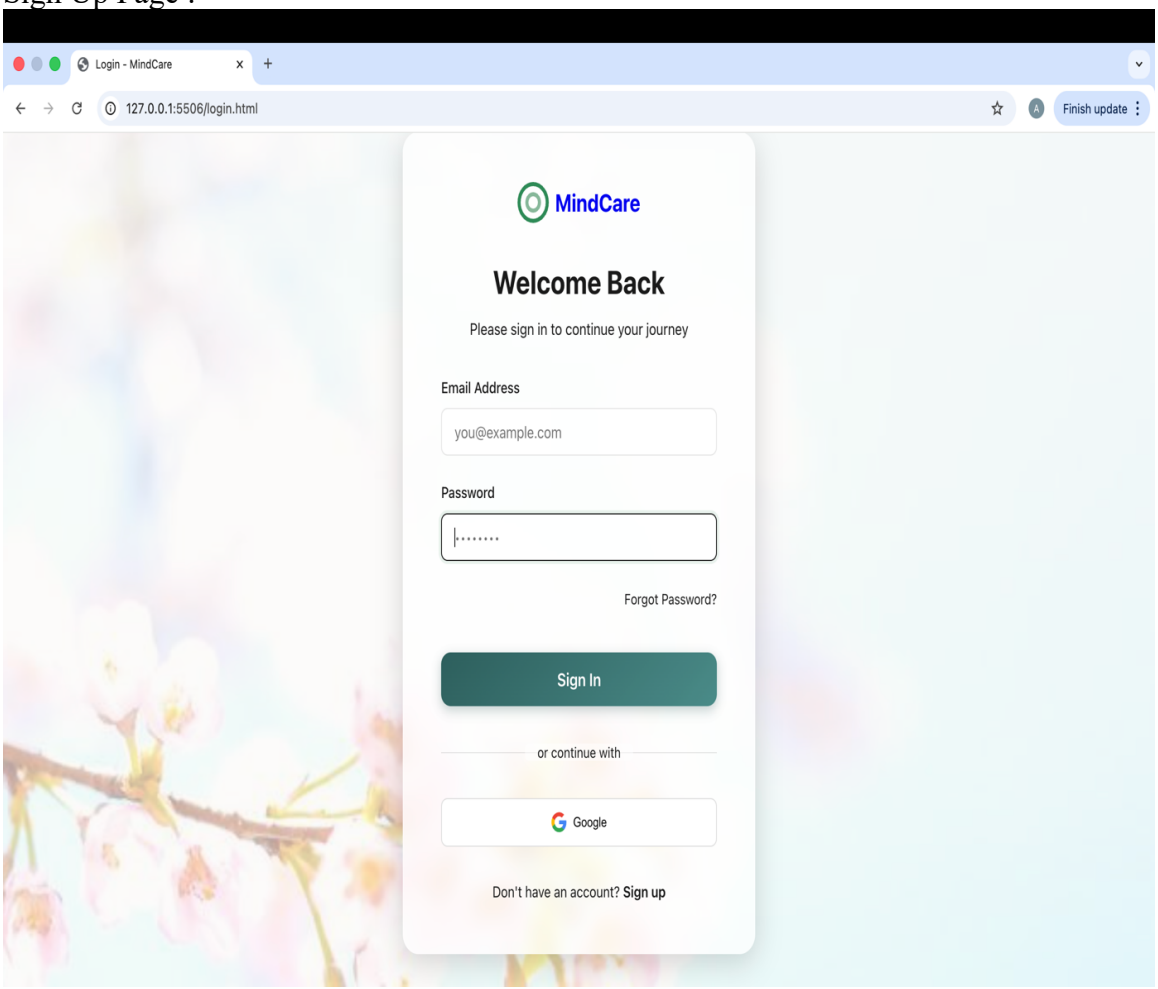
- Sign Up Page :



- Login Page :

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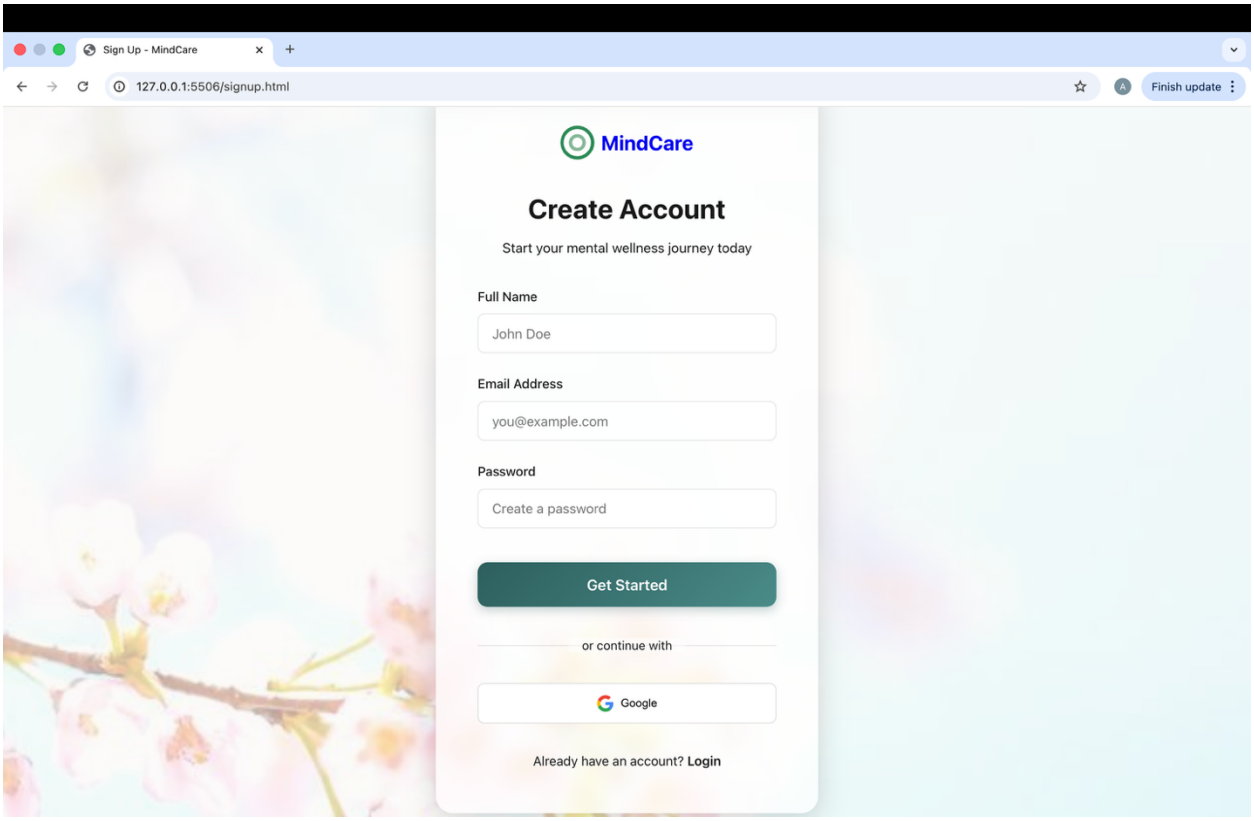

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4. DECLARATION

I hereby declare that this practical work entitled
"Design and Development of a Semantic and Multimedia Webpage Using HTML5"
is my original work carried out by me. This work has not been copied from any source and has not been submitted earlier for any examination.

Name of Student: ___Ashutosh mishra_____
Roll Number : _150096725129_____

Signature of Student: ____ashutosh_____
Date: _____10/2/2026_____

5. FUTURE SCOPE

The current website is developed using HTML5, CSS, and JavaScript. Future enhancements include:

- Backend integration using Node.js or PHP
- Database connectivity for user authentication
- Deployment on a live cloud server
- Advanced accessibility using ARIA attributes
- Integration of APIs for real-time mental health support
- Mobile-first optimization and PWA support

Course: B.Tech – Computer Science & Engineering
Academic Year: 2025- 2026